Model (1)

Science

1) The two factors which describe the motion of an object are……
    a) Speed and time.
    b) Distance and time.
    c) Area and time.
    d) Displacement and speed.

2) From the examples of vector physical quantities is……..
    a) Mass.
    b) Time.
    c) Length.
    d) Displacement.

3) From the examples of living organism which reproduce by budding is ……
    e) Mushroom
    f) Yeast
    g) Star fish
    h) Amoeba

4) If a spherical mirror of radius is 20 cm so its focal length is…………..cm.
    a) 40
    b) 20
    c) 10
    d) 5

5) The passing light ray in the optical center of a convex lens will……
    a) pass through the focus
    b) parallel to the principle axis
    c) not refract
    d) reflect on itself

6) The solar system is located in…….
    a) The center of galaxy
    b) the edge of the circular galaxy.
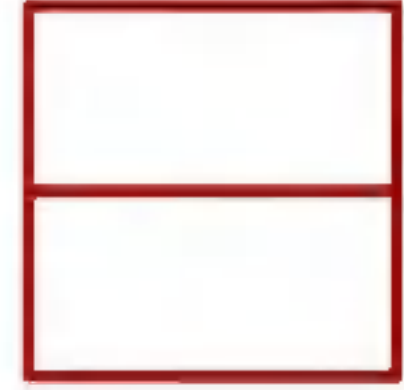   c) The nebula
    d) At one of the arms of the spiral galaxy.

Maths

1) If $(4, a) \in$ the function $f : f(x) = x + 1$, then $a = $ ……   (3 , 4 , <u>5</u> , 6)
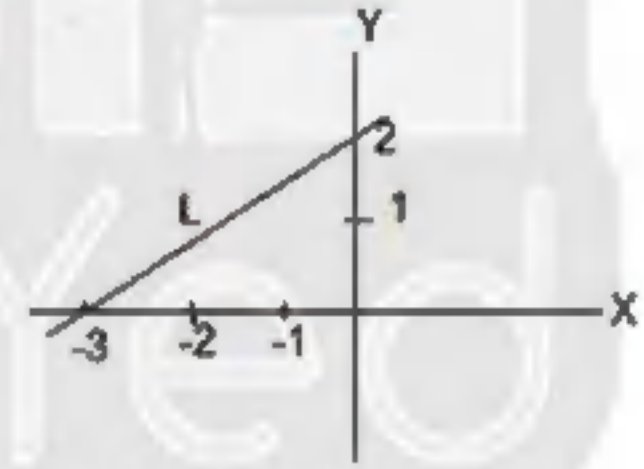
2) If $(x+3, 6)$ located on the y-axis, then $x = $ ………   (0 , 3 , <u>-3</u> , 6)

3) If Y varies directly as X and Y=6 when X = 3, then the value of Y at X = 5 is ……

(5 , 8 , 9 <u>10</u>)

5) The arithmetic mean of 1,2,3,4 and 5 =………   (5 , 4 , <u>3</u> , 2)

6) In the opposite figure, the slope of the straight line L is ……..

$(\frac{3}{2} , -\frac{3}{2} , \frac{2}{3} , -\frac{2}{3})$

7) If $\tan 3X = \sqrt{3}$, where X is an acute angle, then $m(\angle X) = $ ……°   (10 , 15 , <u>20</u> , 30)

8) If A (5 , 7) and B (1 , -1), then the mid-point of $\overline{AB}$ is the point ………..

(<u>(3 , 3)</u> , (2 , 3) , (2 , 4) , (6 , 6))

Model (2)

Science

1) A light ray is incident and passing by the focus of a concave mirror, so.......
   a) It will reflect parallel the principle axis.
   b) Reflected on itself.
   c) Reflected and passing by the center of curvature.
   d) Reflected and passing by the pole of mirror.

2) From the examples of scalar physical quantities .....
   a) Mass.
   b) Acceleration.
   c) Force.
   d) Displacement.

3) A convex lens of focal length of 20 cm, so its radius is.....
   a) 40 cm.
   b) 20 cm.
   c) 10 cm.
   d) 5 cm.

4) From the measuring units of speed.........
   a) m/sec.
   b) m/sec².
   c) m.
   d) sec.

5) The universe is formed from the combination of molecules of ....
   a) Oxygen and Nitrogen.
   b) Hydrogen and Helium.
   c) Hydrogen and Oxygen.
   d) Nitrogen and Helium.

6) The offspring produced from the asexual reproduction gains traits which .... the original organism.
   a) are different from.
   b) are identical to.
   c) have a big difference from.
   d) Have a small difference from.

Maths

1) The function f : f(x) = $x^4 - 2x^3 + 7$ is a polynomial function of ....degree

(first - second - third – <u>fourth</u>)

2) If Y varies directly as X ,and X=1 when Y = 4 then the constant of variation = ...

(1 , -1 , <u>4</u> , -4)

3) If $\frac{a}{3} = \frac{b}{4}$ then 4a -3b+5 = ...

(4 , 3 , <u>5</u> ,7)

4) If the point (5 ,3-k) located on X- axis , then k = ...

(0 ,5 -3 ,<u>3</u>)

5) The Range of the values 23,22,15,18 and 17 = ...

(<u>8</u> , 18 , 19 , 23)

6) The slope of the perpendicular straight line to the straight line passes through the two points

(-1,2) and (0,5) = ...

$-\frac{1}{3}$

(3 , -3 , $\frac{2}{3}$, $\frac{1}{3}$)

7) The straight line whose equation is : 2x + 5y -10 = 0 intersect from x-axis a part

of length ....unit length

(2 , <u>5</u> , $\frac{5}{2}$, $\frac{2}{5}$)

8) If Sin X = $\frac{1}{2}$,where X is an acute angle , then m(∠ X) = ...°

(90 , 60 , 45 , <u>30</u>)

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حل نماذج الوزارة

الفصل الدراسي الأول

نموذج **3** لمادتي الرياضيات والعلوم باللغة الإنجليزية
للصف الثالث الإعدادي
الفصل الدراسي الأول

إعدادي **3**

Model (3)

Science

1) The ability of some living organisms to regenerate the missing parts is called....
   a) Regeneration.
   b) Budding.
   c) Binary fission.
   d) Vegetative reproduction.

2) A gaseous sphere which forms the planets of the solar systems..................
   a) Galaxy.
   b) Nebula.
   c) The big bang.
   d) The universe.

3) A light ray falls on a plane mirror with an angle of 30° so it will reflects with an angle of ....
   a) 30°
   b) 60°
   c) 90°
   d) 180°

4) A vision defect results from the shortness of eye ball diameter......
   a) Short sightedness
   b) Cataract
   c) glaucoma
   d) Long sightness

5) If a body moves from rest regularly till its velocity reaches 10m/s .After 2 seconds from the beginning of the movement so the change in its velocity during 2 seconds equals............m/s^2
   a) Zero
   b) 5
   c) 10
   d) 20

6) The total distance that a moving object covers divided by the total time taken to cover this distance is.................
   a) The final speed
   b) displacement.
   c) the average speed.
   d) the relative speed.

Maths

1) If $\frac{x}{y} = \frac{z}{l} = \frac{2}{3}$, then $\frac{x+2z}{y+2l} = $ .... $\left(\frac{2}{3} , \frac{3}{2} , \frac{1}{3} , \frac{9}{4} \right)$

2) If $n(X) = 5$ and $n(X \times Y) = 10$ then $n(Y) = $ ....   (4 , 3 , 2 , 1)

3) The simplest scale for measuring deviation is ....(Mean , Median, Range , Mode)

4) The fourth proportion of the values 4 , 12 and 16 is ....(24 , ±24 , 48 , ± 48)

5) If $m(\angle A) = 75°$ and $\sin B = \cos A$, where B is an acute angle , then $m(\angle B) = $ ......°

    (45 , 75 , 15 , 105)

6) If the triangle ABC is right angled at angle C

    $\cos A \cos B = $ ....

    (0 , 1 , 6 , 0.48)

7) The product of the slopes of two perpendicular straight lines = ...

    (1 , -1 , ± 1 , 0)

8) If A (5 , 7) and B (1 , -1) , then the midpoint of $\overline{AB}$ is the point ....

    ((3 , 2) , (3 ,3) , (2 ,3) , (4 , 3))